

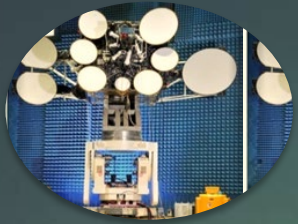
# ATA E-Business Forum And S1000D User Forum 2022



**S1000D**

**06/22/2022**

**Ziv Levinson  
MALAT ILS and  
Tech Pubs PM**

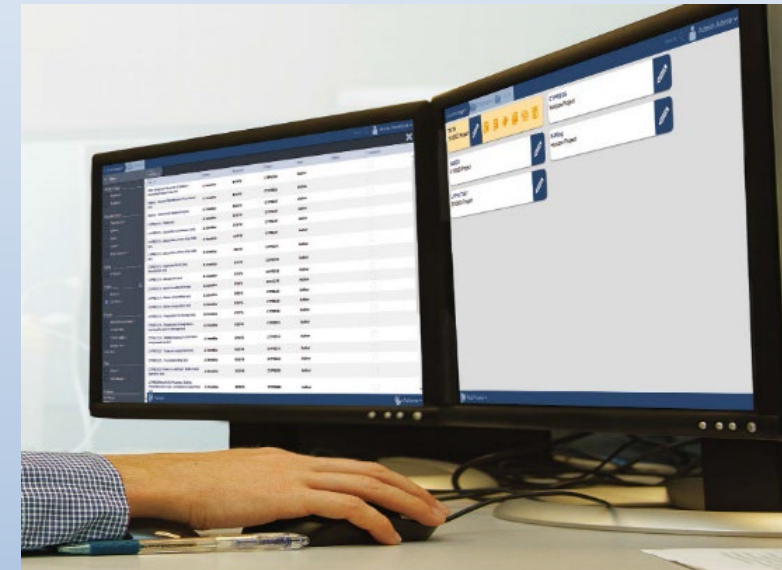


# ***IAI S1000D implementation process & lessons learned***



# Background

- Introduction
- Israel Aerospace Industry
  - MALAT ILS and Tech Pubs Program Manger
- First participation in this conference was at 2017 (Amsterdam)
  - Had almost 0 knowledge on S1000D
- I am here to share with you:
  - **Why** we decided to move into S1000D?
  - **How** we did it? (still doing that)
  - IAI **personal** Lessons learned from the process



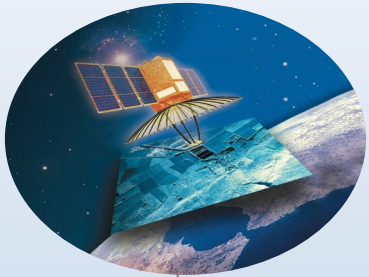
## “Champions Tips”

UNCLASSIFIED

This document contains proprietary information of Israel Aerospace Industries Ltd. and may not be reproduced, copied, disclosed or utilized in any way in whole or in part, without the prior written consent of Israel Aerospace Industries Ltd.



# IAI Divisions



Systems  
Missiles & Space  
(Genesis)



ELTA Systems



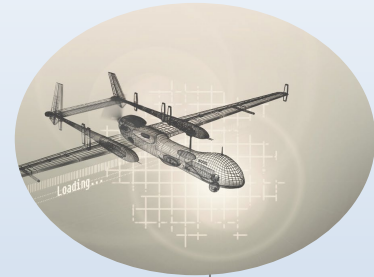
Military Aircraft



Commercial  
Aircraft



BEDEK Aviation



Engineering  
& Development

## MHT

Mr. Gilad Sason  
Head of UAV  
Training and Pubs Dep.



IAI Publications and  
training center

## MHT

Mr. Liran Cohen  
UAV Senior Technical  
writer & S1000D lead



**We are MALAT**

# MALAT Division

## **Comprehensive UAS Solutions**

UNCLASSIFIED

This document contains proprietary information of Israel Aerospace Industries Ltd. and may not be reproduced, copied, disclosed or utilized in any way in whole or in part, without the prior written consent of Israel Aerospace Industries Ltd

# UAV Systems required Technical Documentations

- **MALE**

MTOW 600 -5500 kg  
(NATO Class 3)



- **Tactical**

MTOW 500 -1000 kg  
(NATO Class 2)



- **VTOL**

MTOW 5 - 150 kg  
(NATO Class 1)



- **Small Tactical**

MTOW 5 -50 kg  
(NATO Class 1)



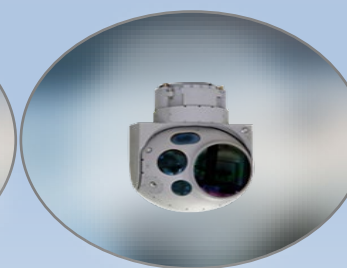
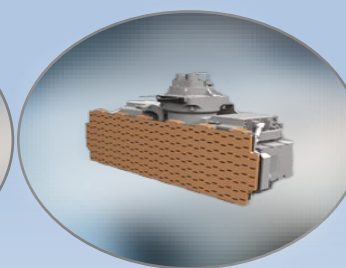
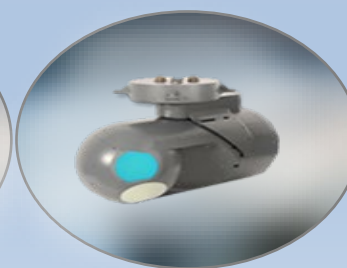
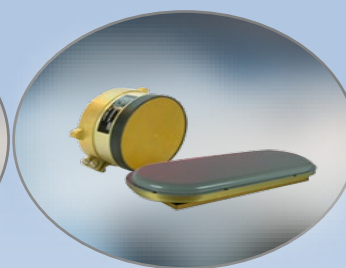
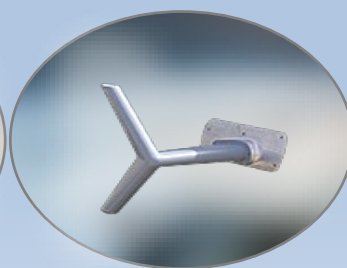
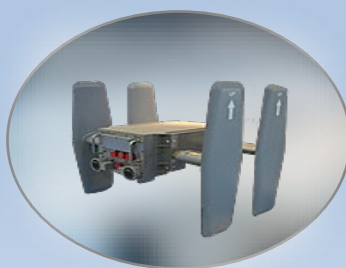
UNCLASSIFIED

This document contains proprietary information of Israel Aerospace Industries Ltd. and may not be reproduced, copied, disclosed or utilized in any way in whole or in part, without the prior written consent of Israel Aerospace Industries Ltd



Don't get confused  
It is exactly like a regular  
aircraft !!!





UNCLASSIFIED

This document contains proprietary information of Israel Aerospace Industries Ltd. and may not be reproduced, copied, disclosed or utilized in any way in whole or in part, without the prior written consent of Israel Aerospace Industries Ltd



# Why did we decide to move into S1000D?

- Customers Demands
- LOAP per customer– 32 manuals, over 10,000 pages=managing more than 1200 books!
- Each customer has his own TM's/Flight Manuals
- Each customer TM is being updating separately
- If I have 20 customers, I am updating 20 **same page** by different technical writers☹
- But the worse case is.....

**We need to pay 20 times!**

**Often, the same page is being  
updated differently**

# Let's see what S1000D provides

- For example, I have 3 customers with almost the same system
  - Lets call them by colors
- Small changes in the avionic systems



Blue



White



purple

`<dmodule xmlns:dc="http://www.purl.org/dc/elements/1.1/" xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/`

`<scormContentPackage<identAndStatusSection> <scormContentPackageAddress>  
<scormContentPackageIdent> <scormContentPackageCode modelIdentCode="DEE1B"  
scormContentPackageNumber="0013" scormContentPackageIssuer="C0419"  
scormContentPackageVolume="00"/> <language countryIsoCode="US" languageIsoCode="sx"/>  
<issueInfo inWork="00" issueNumber="003"/>`

DM

DNC

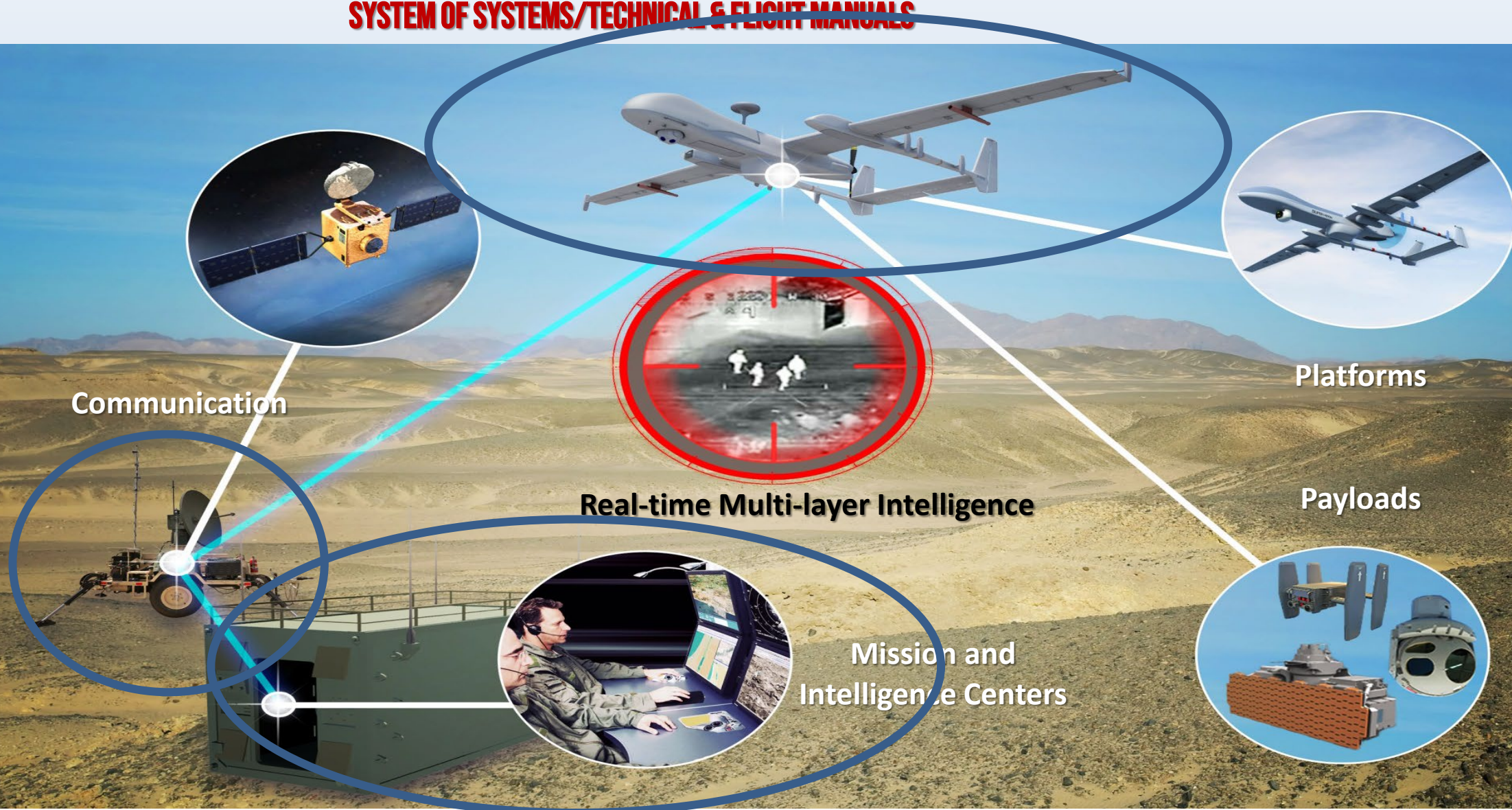
APPLICABILITY 30%

CSDB 70%

"Write Once Use Many"



## SYSTEM OF SYSTEMS/TECHNICAL & FLIGHT MANUALS



UNCLASSIFIED

This document contains proprietary information of Israel Aerospace Industries Ltd. and may not be reproduced, copied, disclosed or utilized in any way in whole or in part, without the prior written consent of Israel Aerospace Industries Ltd

Before we'll continue

# What is S1000D???

<dit<sup>bird</sup>ā>

S1000D<sup>globe</sup>



What if you have to choose?



*LOEDP*

*SNS*

*IPD*

*IETP*

*ICN*

*BRDP*

*BREX*

*REF*

*XML*



*DITA*

*DTD*

*DM*

*IC*

*DDN*

*IO*

*CGM*

*DMRL*

*LOAP*

*CIR*

*LOM*

*BR*

*SCORM*

*CSDB*

*LSA*

*PM*

*Schemas*

*PMC*

*DMC*

*CSN*

# ***“S1000D to do wall steps”***

***IT department  
involvement***

***Legal department  
involvement***

***Be attentive to your technical  
writers/customers needs***

***Choose the best IETP for your needs  
( Try purchase it from the same CSDB Vendor)***

***Plan your budget accordingly – Understand your  
vendor business model  
(annual maintenance fee, # of users Etc.)***

***Plan and build your BR/BREX , put efforts and thinking  
how to config your CSDB  
Use outsource support if needed***

***Participate conferences like the current one***

***Make a pilot on two manuals of yours – Maintenance and IPC***

***Go visit and check the potential vendor systems, give it points:  
Functionality, User Friendly, linkage to your PLM systems, Future support and costs, vendor  
flexibility for required adjustments and service***

***Talk to colleagues about potential vendors/Perform a market survey***

***Start studying the basic specification in order to know the basic concepts/take a S1000D training course***



# 6 Risky factors

Not being attentive to your  
technical writes/customers needs –  
“Voice of the technician”

Not coming with open mind for  
the new Spec. disconnecting  
from the traditional one

Not performing tight  
implementation in your  
organization, use support if  
needed

Wrong software and tools  
selection for your  
organization

Not being familiar with the  
specification

Inadequate training of your  
technical writes  
(Specification&CSDB)

# Results and benefits from S1000D implementation



- ☐ Cost reductions/Increased efficiency
- ☐ S1000D TM's
- ☐ Documentations managed by Data base in one source – (CSDB) all users are watching one applicable data
- ☐ Significant Improvement of the end user experience (technician/operator) – IETP Class 4/5
- ☐ Easy/cheap distribution – IETP on the WEB/Stand alone (CD)
- ☐ Manuals Installation on secures servers
- ☐ Easy to update – “write once use many” (applicability)
- ☐ Another product on our shelve





*Thank you for the opportunity to share!*



*S1000D*

